Briefing for IB class/ bio dept visit to beach:

**Purpose:**

* To demonstrate a range of activities which may support the teaching of ecology-based topics , grades 10 – 12, and at IB level.
* Refresher course for teachers of biology.

RAMS (Risk analysis & management system):

###### Risk Analysis and Management System – RAMS Form

RAMS Prepared by: Kavale Date: 16 Feb 2009

Activity / Situation: Class visit to beach

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Analysis | | **Description and Details** | | |
| **RISKS**  Accident, injury or other forms of loss | | Rocky/soft shore at low tide. Minimal risk of injury | | |
| CAUSAL FACTORS  Hazards, perils, dangers | | People | Equipment | Environment |
| Students not following instructions  Broken glass |  | Stonefish  Uneven surfaces |
| **RISK MANAGEMENT STRATEGIES** | Normal Operation |  |  |  |
| Emergency | First aid training , outdoor first aid  Cell phones carried | | |

**Learning intentions:**

To use basic survey equipment in the form of transects and quadrats

To survey a beach in terms of biotic (animal and plant species) and abiotic (substrate, gradient) factors

**Follow-up objectives:**

Analyse data to show patterns of zonation

Interpret data in terms of intra-specific competition, inter-specific competition and predation

**Materials (per 4 students):**

2 x Metre rulers

Tape measure.

Per student: Pen & paper /notebook